Physics Division Master List of Acronyms and Abbreviations

This document was compiled from many different sources and is an effort to provide a comprehensive list of the acronyms and abbreviations used within P-Division. Use the Adobe Acrobat Reader's text-select tool to highlight the acronym and meaning you wish to copy/paste into your document.

If you find/know of an acronym or abbreviation commonly used in P-Division that is not on this list, please send it to me (tdh@lanl.gov) along with its meaning, and I will add it to this list during the regular update/maintenance cycle. If you have an acronym or abbreviation for which you do not know the definition, you can submit it as well. In your message, please provide the context in which the term is used, and I will try to track down its meaning.

<u>ABCDEFGHIJKLMNOPQRSTUVWXYZ</u>

(Click on the letter to jump to that section of the list.)

		APPJ	atmospheric-pressure plasma jet
Α	(Back to top)	APT	accelerator production of tritium
AC	alternating current	ARDA	Advanced Research and Development
ACT	atmospheric Cerenkov telescope		Activity
ADC	analog-to-digital converter	ARO	Army Research Office
ADO	Associate Director for Operations	ASCI	advanced simulation and computing
ADSR	Associate Director for Strategic		initiative
	Research	ASIC	application-specific integrated circuit
ADTR	Associate Director for Threat Reduction	atm	atmosphere (unit of pressure)
ADWEM	Associate Director for Weapons Engineering and Manufacturing	ATLAS	Argonne Tandem Linac Accelerator System (at ANL)
ADWP	Associate Director for Weapons Physics	ATLAS	Advanced Test Line for Actinide
AFOSR	Air Force Office of Scientific Research		Separation (LANL)
AFRL	U.S. Air Force Research Laboratory	Atlas	Laboratory pulsed-power facility (While
	(Albuquerque, New Mexico)		technically not an acronym, it's commonly
AGASA	Akeno Giant Air Shower Array	A (1	thought to be one.)
AGEX	above-ground experiments	Atlas	It is also the UNLV Rack Assembly Facility (While technically not an acronym,
AGS	Alternating-Gradient Synchrotron (at BNL)		it's also commonly thought to be one.)
AHF	Advanced Hydrotest Facility (proposed,	ATTA	atom-trap trace analysis
	LANL)	AWE	Atomic Weapons Establishment (the UK
AMANDA	Antarctic Muon And Neutrino Detector Array		equivalent of the DOE)
AMS	accelerator mass spectroscopy	_	
AMO	atomic, molecular, and optical (physics)	В	(Back to top)
ANL	Argonne National Laboratory	В	Bioscience (Laboratory Division)
ANP	atmospheric neutrino physics	BA	bacillus anthracis
APD	avalanche photodiode	BBO	beta-barium-borate
API	associated particle imaging		



BEARS	Berkeley experiments with accelerated	CIA	Central Intelligence Agency
	radioactive species (LBNL)	CID	charge injection device
BEC	Bose-Einstein condensate	CKM	Cabibbo-Kobayashi-Maskawa (matrix)
BES	Basic Energy Sciences (DOE Office of)	CMBR	cosmic microwave background radiation
BER	bit error rate	C-MOD	Alcator C modfication (successor to
BG	bacillus globigii	002	machines Alcator A, B, C)
BGK	Bernstein-Greene-Kruskal	C-NOT	controlled-not (gate)
BGS	Berkeley Gas-Filled Spectrometer (LBNL)	СРВ	Cooper-pair box
BGO	bismuth germanium oxide	CR	convergence ratio
BMD	ballistic missile defense	CSC	cathode-strip chamber
BMDO	Ballistic Missile Defense Organization	СТ	compact toroid
BN	Bechtel-Nevada	CT	computerized (or computed) tomography
BNL	Brookhaven National Laboratory	CTS	Cryogenic Thermochromatographic
BOD	biological oxygen demand	0.0	Separator (LBNL)
BooNE	booster neutrino experiment	CTX	compact torus experiment
BR	branching ratio	CUNL	Carlsbad Underground Nonaccelerator
BT	bacillus thuringiensis		Laboratory
BTR	bodipy-texas red	CUORE	Cryogenic Underground Observatory for
	bodipy toxac roa		Rare Events (Gran Sasso, Italy)
С	(Dook to top)	CVC	conserved vector current
_	(Back to top)		(hypothesis—electroweak theory)
С	Chemistry (Laboratory Division)	CVD	chemical vapor deposition
CBNSP	Chemical/Biological National Security		
	Program	D	(Back to top)
CCD	Program charge-coupled device	D	(<u>Back to top</u>) Dual-Axis Radiographic Hydrodynamic
CCD CCH	Program charge-coupled device cross-correlation histogram	_	,
CCD CCH CAPS	Program charge-coupled device cross-correlation histogram Cassini plasma spectrometer	_	Dual-Axis Radiographic Hydrodynamic
CCD CCH CAPS CC	Program charge-coupled device cross-correlation histogram Cassini plasma spectrometer charged-current	DARHT	Dual-Axis Radiographic Hydrodynamic Test (facility)
CCD CCH CAPS	Program charge-coupled device cross-correlation histogram Cassini plasma spectrometer charged-current Computer & Computational Sciences	DARHT	Dual-Axis Radiographic Hydrodynamic Test (facility) device for advanced neutron capture experiments Defense Advanced Research Projects
CCD CCH CAPS CC CCS	Program charge-coupled device cross-correlation histogram Cassini plasma spectrometer charged-current Computer & Computational Sciences (Laboratory Division)	DARHT DANCE DARPA	Dual-Axis Radiographic Hydrodynamic Test (facility) device for advanced neutron capture experiments
CCD CCH CAPS CC CCS	Program charge-coupled device cross-correlation histogram Cassini plasma spectrometer charged-current Computer & Computational Sciences (Laboratory Division) cold dark matter search	DARHT DANCE DARPA DC	Dual-Axis Radiographic Hydrodynamic Test (facility) device for advanced neutron capture experiments Defense Advanced Research Projects Agency direct current
CCD CCH CAPS CC CCS	Program charge-coupled device cross-correlation histogram Cassini plasma spectrometer charged-current Computer & Computational Sciences (Laboratory Division) cold dark matter search Centre Etude Atomiqué (Center for Atomic	DARHT DANCE DARPA	Dual-Axis Radiographic Hydrodynamic Test (facility) device for advanced neutron capture experiments Defense Advanced Research Projects Agency direct current Deputy Director for Science and
CCD CCH CAPS CC CCS CDMS CEA	Program charge-coupled device cross-correlation histogram Cassini plasma spectrometer charged-current Computer & Computational Sciences (Laboratory Division) cold dark matter search Centre Etude Atomiqué (Center for Atomic Studies, the French equivalent of the DOE)	DARHT DANCE DARPA DC DDST	Dual-Axis Radiographic Hydrodynamic Test (facility) device for advanced neutron capture experiments Defense Advanced Research Projects Agency direct current Deputy Director for Science and Technology
CCD CCH CAPS CC CCS	Program charge-coupled device cross-correlation histogram Cassini plasma spectrometer charged-current Computer & Computational Sciences (Laboratory Division) cold dark matter search Centre Etude Atomiqué (Center for Atomic Studies, the French equivalent of the DOE) Continuous Electron Beam Accelerator	DARHT DANCE DARPA DC DDST DEMG	Dual-Axis Radiographic Hydrodynamic Test (facility) device for advanced neutron capture experiments Defense Advanced Research Projects Agency direct current Deputy Director for Science and Technology disk explosive magnetic generator
CCD CCH CAPS CC CCS CDMS CEA	Program charge-coupled device cross-correlation histogram Cassini plasma spectrometer charged-current Computer & Computational Sciences (Laboratory Division) cold dark matter search Centre Etude Atomiqué (Center for Atomic Studies, the French equivalent of the DOE) Continuous Electron Beam Accelerator Facility (at JLAB)	DARHT DANCE DARPA DC DDST	Dual-Axis Radiographic Hydrodynamic Test (facility) device for advanced neutron capture experiments Defense Advanced Research Projects Agency direct current Deputy Director for Science and Technology disk explosive magnetic generator Duke (University) Free-Electron Laser
CCD CCH CAPS CC CCS CDMS CEA	Program charge-coupled device cross-correlation histogram Cassini plasma spectrometer charged-current Computer & Computational Sciences (Laboratory Division) cold dark matter search Centre Etude Atomiqué (Center for Atomic Studies, the French equivalent of the DOE) Continuous Electron Beam Accelerator	DARHT DANCE DARPA DC DDST DEMG DFELL	Dual-Axis Radiographic Hydrodynamic Test (facility) device for advanced neutron capture experiments Defense Advanced Research Projects Agency direct current Deputy Director for Science and Technology disk explosive magnetic generator Duke (University) Free-Electron Laser Laboratory
CCD CCH CAPS CC CCS CDMS CEA	Program charge-coupled device cross-correlation histogram Cassini plasma spectrometer charged-current Computer & Computational Sciences (Laboratory Division) cold dark matter search Centre Etude Atomiqué (Center for Atomic Studies, the French equivalent of the DOE) Continuous Electron Beam Accelerator Facility (at JLAB) European Laboratory for Particle	DARHT DANCE DARPA DC DDST DEMG DFELL DFS	Dual-Axis Radiographic Hydrodynamic Test (facility) device for advanced neutron capture experiments Defense Advanced Research Projects Agency direct current Deputy Director for Science and Technology disk explosive magnetic generator Duke (University) Free-Electron Laser Laboratory decoherence-free subspace
CCD CCH CAPS CC CCS CDMS CEA CEBAF CERN	Program charge-coupled device cross-correlation histogram Cassini plasma spectrometer charged-current Computer & Computational Sciences (Laboratory Division) cold dark matter search Centre Etude Atomiqué (Center for Atomic Studies, the French equivalent of the DOE) Continuous Electron Beam Accelerator Facility (at JLAB) European Laboratory for Particle Physics (in French)	DARHT DANCE DARPA DC DDST DEMG DFELL DFS DGL	Dual-Axis Radiographic Hydrodynamic Test (facility) device for advanced neutron capture experiments Defense Advanced Research Projects Agency direct current Deputy Director for Science and Technology disk explosive magnetic generator Duke (University) Free-Electron Laser Laboratory decoherence-free subspace deputy group leader
CCD CCH CAPS CC CCS CDMS CEA CEBAF CERN cf.	Program charge-coupled device cross-correlation histogram Cassini plasma spectrometer charged-current Computer & Computational Sciences (Laboratory Division) cold dark matter search Centre Etude Atomiqué (Center for Atomic Studies, the French equivalent of the DOE) Continuous Electron Beam Accelerator Facility (at JLAB) European Laboratory for Particle Physics (in French) confer (compare)	DARHT DANCE DARPA DC DDST DEMG DFELL DFS DGL DH	Dual-Axis Radiographic Hydrodynamic Test (facility) device for advanced neutron capture experiments Defense Advanced Research Projects Agency direct current Deputy Director for Science and Technology disk explosive magnetic generator Duke (University) Free-Electron Laser Laboratory decoherence-free subspace deputy group leader dynamic hohlraum
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CCD CCH CAPS CC CCS CDMS CEA CEBAF CERN cf. CFO CH	Program charge-coupled device cross-correlation histogram Cassini plasma spectrometer charged-current Computer & Computational Sciences (Laboratory Division) cold dark matter search Centre Etude Atomiqué (Center for Atomic Studies, the French equivalent of the DOE) Continuous Electron Beam Accelerator Facility (at JLAB) European Laboratory for Particle Physics (in French) confer (compare) Carlsbad Field Office carbon-hydrogen continuous high-average-power	DARHT DANCE DARPA DC DDST DEMG DFELL DFS DGL DH DIM	Dual-Axis Radiographic Hydrodynamic Test (facility) device for advanced neutron capture experiments Defense Advanced Research Projects Agency direct current Deputy Director for Science and Technology disk explosive magnetic generator Duke (University) Free-Electron Laser Laboratory decoherence-free subspace deputy group leader dynamic hohlraum diagnostic insertion manipulator Delft Institute of Microelectronics and Submicron Technologies (The
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DLD	digital light propagar	ECD	alastran anin rasanana
DLP DM	digital light processor dark matter	ESR ETR	electron-spin resonance enhanced test rediness
DNA		eV	electron volt
DOD	deoxyribonucleic acid	ev	election voit
	Department of Defense	_	
DOE DD	Department of Energy	F	(Back to top)
	DOE-Defense Programs	FEAT	Facility for Exotic Atom Trapping (LBNL)
	E DOE-Office of Fusion Energy	FEL	free-electron laser
DQE	detector/detection quantum efficiency	FET	field-effect transistor
DT	deuterium-tritium	FID	fiber-optic impact detector
DTRA	Defense Threat Reduction Agency	fMRI	functional magnetic resonance imaging
DX	Dynamic Experimentation (Laboratory	FNA	Fast Neutron Analysis
DVMEV	Division)	FNAL	Fermi National Accelerator Laboratory
DYNEX	dynamic experiments (confined	FPU	first production unit
	experiments at DARHT)	FRC	field-reversed configuration
_		FRX-L	field-reversed configuration
E	(Back to top)		experiment-linear
EAS	extensive air shower	FWHM	full-width at half maximum
ECR	electron cyclotron resonance	FTE	full-time employee
EDM	electric dipole moment	FTO	French test object
EEG	electroencephalography	FXR	Livermore (LLNL) radiographic source
e.g.	exempli gratia (for example)	FXR	flash x-ray
EIC	electron-ion collider	FY	fiscal year
EM	electromagnetic	<u>FY</u>	fiscal year
EM EMP	electromagnetic electromagnetic pulse	G FY	(Back to top)
EM	electromagnetic electromagnetic pulse Environmental Management Science		(Back to top)
EMP EMSP	electromagnetic electromagnetic pulse Environmental Management Science Program	G	(Back to top) ganglion cell
EMP EMSP	electromagnetic electromagnetic pulse Environmental Management Science Program evaluated nuclear data file	G	(Back to top) ganglion cell giga electron volt
EMP EMSP ENDF ENG	electromagnetic electromagnetic pulse Environmental Management Science Program evaluated nuclear data file electronic neutron generator	G GC GeV	(Back to top) ganglion cell
EMP EMSP ENDF ENG ENSDF	electromagnetic electromagnetic pulse Environmental Management Science Program evaluated nuclear data file electronic neutron generator evaluated nuclear structure data file	GC GeV GL GMT	(Back to top) ganglion cell giga electron volt group leader Greenwich mean time
EMP EMSP ENDF ENG ENSDF EOS	electromagnetic electromagnetic pulse Environmental Management Science Program evaluated nuclear data file electronic neutron generator evaluated nuclear structure data file equation of state	GC GeV GL	(Back to top) ganglion cell giga electron volt group leader Greenwich mean time Gallium Neutrino Observatory
EMP EMSP ENDF ENG ENSDF	electromagnetic electromagnetic pulse Environmental Management Science Program evaluated nuclear data file electronic neutron generator evaluated nuclear structure data file equation of state C equation of state time projection	GC GeV GL GMT GNO	(Back to top) ganglion cell giga electron volt group leader Greenwich mean time Gallium Neutrino Observatory gas puff imaging
EMP EMSP ENDF ENG ENSDF EOS EOS-TPO	electromagnetic electromagnetic pulse Environmental Management Science Program evaluated nuclear data file electronic neutron generator evaluated nuclear structure data file equation of state C equation of state time projection chamber (collaboration-LBNL)	GC GeV GL GMT GNO GPI GRB	(Back to top) ganglion cell giga electron volt group leader Greenwich mean time Gallium Neutrino Observatory gas puff imaging gamma-ray burster
EMP EMSP ENDF ENG ENSDF EOS EOS-TPO	electromagnetic electromagnetic pulse Environmental Management Science Program evaluated nuclear data file electronic neutron generator evaluated nuclear structure data file equation of state C equation of state time projection chamber (collaboration-LBNL) Einstein-Podolsky-Rosen	GC GeV GL GMT GNO GPI	(Back to top) ganglion cell giga electron volt group leader Greenwich mean time Gallium Neutrino Observatory gas puff imaging
EMP EMSP ENDF ENG ENSDF EOS EOS-TPO	electromagnetic electromagnetic pulse Environmental Management Science Program evaluated nuclear data file electronic neutron generator evaluated nuclear structure data file equation of state C equation of state time projection chamber (collaboration-LBNL) Einstein-Podolsky-Rosen electron paramagnetic resonance	GC GeV GL GMT GNO GPI GRB	(Back to top) ganglion cell giga electron volt group leader Greenwich mean time Gallium Neutrino Observatory gas puff imaging gamma-ray burster Gamma-ray Energy Tracking Array
EMP EMSP ENDF ENG ENSDF EOS EOS-TPO EPR EPR EPW	electromagnetic electromagnetic pulse Environmental Management Science Program evaluated nuclear data file electronic neutron generator evaluated nuclear structure data file equation of state C equation of state time projection chamber (collaboration-LBNL) Einstein-Podolsky-Rosen electron paramagnetic resonance electron-plasma wave	GC GeV GL GMT GNO GPI GRB GRETA	(Back to top) ganglion cell giga electron volt group leader Greenwich mean time Gallium Neutrino Observatory gas puff imaging gamma-ray burster Gamma-ray Energy Tracking Array (LBNL)
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EM EMP EMSP ENDF ENG ENSDF EOS EOS-TPO EPR EPR EPR EPW E-RAD ERIM ES	electromagnetic electromagnetic pulse Environmental Management Science Program evaluated nuclear data file electronic neutron generator evaluated nuclear structure data file equation of state C equation of state time projection chamber (collaboration-LBNL) Einstein-Podolsky-Rosen electron paramagnetic resonance electron-plasma wave electron radiography Environmental Research Institute of Michigan elastic-scattering Engineering Sciences and Applications	GCGeVGLGMTGNOGPIGRBGRETAGTNAGUT	(Back to top) ganglion cell giga electron volt group leader Greenwich mean time Gallium Neutrino Observatory gas puff imaging gamma-ray burster Gamma-ray Energy Tracking Array (LBNL) Gamov-Teller gated thermal neutron analysis grand unified theory (Back to top) high-altitude nuclear event/explosion



HEDII		IDD	
HEDH	high energy-density hydrodynamics	IPD	institutional program development
HED	high energy-density (physics)	IR	infrared
HEP	high-energy physics	IRIS	Ion source for Radioactive ISotopes (LBNL)
HETT	high explosive transit time	ISiS	Indiana Silicon Sphere (collaboration-
HEU	highly enriched uranium	1010	LBNL)
HIRAB	High-Resolution Atomic Beam (facility)	IVA	inductive voltage adder
HMX	high melting explosive		
HMX	1,3,5,7-tetranitro-1,3,5,7-tetrazacyclo- octane (Cyclotetramethylenetetranitramine)	J	(Back to top)
HP	high-pressure	JASONs	,
HPIC	high-pressure ionization chamber	JASONS	academic/industry scientists who work
HRIBF	Holifield Radioactive Ion Beam Facility		in national-security areas. It was form-
	(at ORNL)		erly sponsored by the DoD and is now
HS	Homeland Security (Department)		funded by DARPA/ARDA. The acronym
HV	high voltage		stands for the months in which they
		1014/00	meet (July, Aug., Sept., Oct., & Nov.).
1	(Back to top)	JOWOG	joint working group (US-UK, weapons)
IAEA	International Atomic Energy Agency	JJ JLAB	Josephson junction Thomas Jefferson National Accelerator
IAW	ion acoustic wave	JLAB	(Laboratory) Facility
IB	internal bremsstrahlung		(Laberatory) : domey
IBD	Industrial Business Development	K	(Back to top)
	(Laboratory Program Office)		,
ICCD	intensified charge-coupled device	Kamlan	D Kamioka Liquid scintillator Anti- Neutrino Detector (Japan)
ICF	inertial confinement fusion	KEK	National Laboratory for High-Energy
ICF&RP	Inertial Confinement Fusion and		Physics, Japan
	Radiation Physics (program)	KTP	potassium titanyl phosphate
ICP	inductively coupled plasma		
ICPES	inductively coupled plasma emission	L	(Back to top)
ICDMC	spectroscopy	LAAO	Los Alamos Area Office (a branch of the
ICPMS	inductively coupled plasma mass spectroscopy	2, 0 10	U.S. Department of Energy)
IDL	Interactive Data Language™ (commercial	Laborato	ry Los Alamos National Laboratory
102	software package)	LADAR	laser distancing and ranging
i.e.	id est (that is)	LAMPF	Los Alamos Meson Physics Facility (now
IF	interference filter		LANSCE)
IHE	insensitive high explosive	LANDD	liquid argon nucleon decay detector
ILL	Institut Laue Langevin (Grenoble, France)	LANL	Los Alamos National Laboratory
IMB	Irvine-Michigan-Brookhaven (detector)		("Laboratory" is preferred)
IMLEO	initial-mass-in-low-earth-orbit		Los Alamos Neutron Science Center
INEL	Idaho National Engineering Laboratory	LASL	Los Alamos Scientific Laboratory
INPA	Institute of Nuclear and Particle	I DAU	(LANL designation before January 1, 1981)
	Astrophysics (LBNL)	LBNL	Lawrence Berkeley National Laboratory
	Astrophysics (LDNL)	LDO	lanthanum haren avida
INPAC	Institute for Nuclear (physics), Particle (physics), Astrophysics, and Cosmology	LBO LCD	lanthanum boron oxide liquid crystal device/display



LDRD	Laboratory-directed research and	MEG	magnetoencephalography
LDIND	development	MEMS	micro-electro-mechanical systems
LDRD-DI	R LDRD-directed research	MeV	mega electron volt
LDRD-EI	R LDRD-exploratory research	MFE	magnetic fusion energy
LEBAF	Low Energy Beam Accelerator Facility (at	MHD	magnetohydrodynamics
	TUNL)	MINOS	main injector neutrino oscillation
LENA	Laboratory for Experimental Nuclear		search
	Astrophysics (at TUNL)	MIT	Massachusetts Institute of Technology
LENS	Low-Energy Solar Neutrino Spectroscopy	MJ	megajoule
	(Gran Sasso, Italy)	mK	millikelvins
LHC	Large Hadron Collider (facility at CERN)	MLNSC	Manual Lujan, Jr., Neutron Scattering
LHD	Large Helical Device (facility—Japan)		Center
LIG	Laboratory implementation guidance	MM	multimode
LIR	Laboratory implementation requirement	MMI	multimode-interference
LLE	Laboratory for Laser Energetics	MoNA	Modular Neutron Array (at NSCL)
LLNII	(University of Rochester)	MOU	memorandum of understanding
LLNL	Lawrence Livermore National Laboratory	MP	massively parallel
LLS	laser-light scattering	MRFM	magnetic resonance force microscope
LMJ	Laser Mega Joule (facility—France)	MRI	magnetic resonance imaging
LOCC	local operations and classical	ms	millisecond
2000	communication	MST	Materials Sciences and Technology
LOQC	linear optics quantum computing		(Laboratory Division)
LPI	laser-plasma interaction	MSU	Michigan State University
lp/mm	line pairs per millimeter	MTF	magnetized target fusion
LPR	Laboratory performance requirement	MTOF-M	
LRP	long range plan	MVD	spectroscopy
LSND	Liquid Scintillator Neutrino Detector	MW	multiplicity/vertex detector megawatt
LSO	lutetium oxyorthosilicate (a fast, bright	MWPC	multiwire-proportional chamber
	scintillator)	WIVVEC	mattiwire-proportional chamber
LST	local standard time	NI.	
LVD	large volume detector	N	(Back to top)
		N.A.	not available
M	(Back to top)	N.A.	numerical aperture
μs	microsecond	n/a	not applicable
MACRO	Monopole and Cosmic Ray Observatory	NA	not analyzed
MAGO	magnetic compression of a fusion target	NABS	nuclear and beam science
	(in Russian)	NC	neutral current
MC	monté carlo	NCD	neutral-current detector
MCG	magnetocardiotherapy	NDE	nondestructive evaluation
MCM	multichip module	NDK ~EDM	nucleon decay
MCNP	Monte Carlo neutron and photon	nEDM	neutron electric dipole moment
	(transport code)	NEM	neural electromagnetic
MCP	micro channel plate	NEMS	nano-electro-mechanical systems



NES	neutron elastic scattering	NURF	National Underground Research Facility
NFFBI	National Facility for Functional Brain		(proposed)
	Imaging	NUSEL	National Underground Scientific and
NIF	National Ignition Facility (at LLNL)		Engineering Laboratory (proposed)
NIH	National Institutes of Health	NW	nuclear weapons
NIMA	National Imaging and Mapping Agency	NW	Nuclear Weapons (Laboratory Directorate)
NIS	Nonproliferation and International	NWAP	Nuclear Weapon Archiving Project
	Security (Laboratory Division)	NW-EP	Nuclear Weapons-Experimental
NIST	National Institute of Standards and		Programs
NIME	Technology	NW-SC	Nuclear Weapons-Strategic Computing
NMD	national missile defense		
NMR	nuclear magnetic resonance	0	(Back to top)
NMSU	New Mexico State University	1-D	one-dimensional
NMT	Nuclear Materials Technology	OBER	Office of Biological and Engineering
NN20	(Laboratory Division) DOE Threat Reduction Office		Research (DOE)
NNN	Nucleon decay, neutrino, and (3rd N is	OFE	Office of Fusion Energy (DOE)
INININ	unidentified)	OMNIS	Observatory for Multi-flavor Neutrino
NNSA	National Nuclear Security Administration	OND	Interactions from Supernova
NP	nuclear physics	ONR	Office of Naval Research
NPP	Nuclear and Particle Physics (Physics	ORNL	Oak Ridge National Laboratory
	Division Program)	OTR	optical transition radiation
NQR	nuclear quadrupole resonance	Р	
NRA	neutron resonance analysis	=	(Back to top)
NRC	National Research Council	P	Physics (Laboratory Division)
NRC	U.S. Nuclear Regulatory Commission	P-21	Biological and Quantum Physics
NRF	nuclear resonance fluorescence	P-22	Hydrodynamics and X-Ray Physics
NRL	Naval Research Laboratory	P-23	Neutron Science and Technology
NRO	National Reconnaissance Office	P-24	Plasma Physics
NRS	neutron resonance spectroscopy	P-25	Subatomic Physics
ns	nanosecond	P-DO	Physics Division Office
NSA	National Security Agency	PCD	photoconductive detector
NSAC	Nuclear Science Advisory Committee	PCR	polymerase chain reaction
NSCL	National Superconducting Cyclotron	PD	photodiode
	Laboratory (at MSU)	PDRC	Physics Division review committee
NSF	National Science Foundation	PEPE	plasma experiment for planetary
NSLS	national synchrotron light source	PET	exploration
NSTX	national spherical torus experiment	PF/TNA	positron emission tomography
NTLX	near-term liner experiment	PFNA PFNA	pulsed fast/thermal neutron analysis
NTF	Nevada Terawatt Facility (Univ. of	PFX	pulsed fast neutron analysis
NTO	Nevada-Reno)	PFX PGA	Penning fusion experiment
NTS	Nevada Test Site	PGA PGAA	pulsed gamma-ray analysis
NUDET	nuclear detonation (detection program)	FGAA	prompt gamma-ray activation analysis
NUEX	neutron experiments		



PHELIX	precision high-energy liner implosion sxperiment	R	(Back to top)
PHENIX	pioneering high-energy nuclear	R&D	research and development
	interaction experiment	RDX	research department explosive
PHERME	EX Pulsed, High-Energy, Radiographic Machine Emitting X-Rays (facility)	RDX	1,3,5-trinitro-1,3,5-triazacyclohexane (Cyclotrimethylenetrinitramine)
PINEX	pinhole neutron experiment	RF	radio frequency
PIO	Planning Integration Office (Weapons)	RFLP	restriction fragment length
PMT	photomultiplier tube		polymorphism
PNA	peptide nucleic acid	RGA	resonant gamma-ray absorption
POPS	periodically oscillating plasma sphere	RGS	resonant gamma-ray scattering
PPBES	planning, programming, budgeting, and	RHIC	Relativistic Heavy-Ion Collider (at BNL)
	evaluation/execution system	RIA	Rare Isotope Accelerator (proposed)
PPPL	Princeton Plasma Physics Laboratory	R-M	Richtmeyer-Meshkov
ppm	parts per million	RMF	rotating magnetic field
pps	pulses per second	RMS	root mean square
pRad	proton radiography	RNC	Relativistic Nuclear Collisions (LBNL
ps	picosecond		group)
PSBO	passive shock breakout	RO	Rabi oscillation
PSD	pulse shape discrimination	RP	radiation physics
PSII	plasma source ion implantation	RPP	random phase plates
PSR	proton storage ring	RPPL	Redmond Plasma Physics Laboratory
PSTH	peri-stimulus time histogram	RSX	(collisionless magnetic) reconnection
			scaling experiment
Q	(Back to top)	R-T	Raleigh-Taylor
QC	quantum computation	RULLI	remote ultra low light imaging
QC QC	quantum computation quantum computer		• •
		RULLI S	• •
QC	quantum computer		remote ultra low light imaging
QC QCD	quantum computer quantum chromodynamics	s	remote ultra low light imaging (Back to top)
QC QCD QD	quantum computer quantum chromodynamics quantum dot	S	remote ultra low light imaging (Back to top) Soviet-American gallium experiment
QC QCD QD QEC	quantum computer quantum chromodynamics quantum dot quantum error correction	S SAGE SAMi	remote ultra low light imaging (Back to top) Soviet-American gallium experiment SQUID array microscope
QC QCD QD QEC QED	quantum computer quantum chromodynamics quantum dot quantum error correction quantum electrodynamics	S SAGE SAMI SAW	(Back to top) Soviet-American gallium experiment SQUID array microscope surface-acoustic wave
QC QCD QD QEC QED QFT	quantum computer quantum chromodynamics quantum dot quantum error correction quantum electrodynamics quantum Fourier transform	S SAGE SAMI SAW SBS	remote ultra low light imaging (Back to top) Soviet-American gallium experiment SQUID array microscope surface-acoustic wave stimulated Brillouin scattering
QC QCD QD QEC QED QFT QGP	quantum computer quantum chromodynamics quantum dot quantum error correction quantum electrodynamics quantum Fourier transform quark-gluon plasma	S SAGE SAMI SAW SBS SBSS	(Back to top) Soviet-American gallium experiment SQUID array microscope surface-acoustic wave stimulated Brillouin scattering science-based stockpile stewardship
QC QCD QD QEC QED QFT QGP QIP	quantum computer quantum chromodynamics quantum dot quantum error correction quantum electrodynamics quantum Fourier transform quark-gluon plasma quantum information processing	S SAGE SAMI SAW SBS SBSS	(Back to top) Soviet-American gallium experiment SQUID array microscope surface-acoustic wave stimulated Brillouin scattering science-based stockpile stewardship subcritical experiments SCEs were: Rebound, Stagecoach, Cimarron, Thoroughbred, and the
QC QCD QD QEC QED QFT QGP QIP QIS	quantum computer quantum chromodynamics quantum dot quantum error correction quantum electrodynamics quantum Fourier transform quark-gluon plasma quantum information processing quantum information science	S SAGE SAMI SAW SBS SBSS	(Back to top) Soviet-American gallium experiment SQUID array microscope surface-acoustic wave stimulated Brillouin scattering science-based stockpile stewardship subcritical experiments SCEs were: Rebound, Stagecoach, Cimarron, Thoroughbred, and the Stallion series: Vito, Rocco, Mario, and
QC QCD QD QEC QED QFT QGP QIP QIS	quantum computer quantum chromodynamics quantum dot quantum error correction quantum electrodynamics quantum Fourier transform quark-gluon plasma quantum information processing quantum information science quantum information, science, and	S SAGE SAMI SAW SBS SBSS SCEs	(Back to top) Soviet-American gallium experiment SQUID array microscope surface-acoustic wave stimulated Brillouin scattering science-based stockpile stewardship subcritical experiments SCEs were: Rebound, Stagecoach, Cimarron, Thoroughbred, and the Stallion series: Vito, Rocco, Mario, and Armando
QC QCD QD QEC QED QFT QGP QIP QIS QIST	quantum computer quantum chromodynamics quantum dot quantum error correction quantum electrodynamics quantum Fourier transform quark-gluon plasma quantum information processing quantum information science quantum information, science, and technology	S SAGE SAMI SAW SBS SBSS SCES	(Back to top) Soviet-American gallium experiment SQUID array microscope surface-acoustic wave stimulated Brillouin scattering science-based stockpile stewardship subcritical experiments SCEs were: Rebound, Stagecoach, Cimarron, Thoroughbred, and the Stallion series: Vito, Rocco, Mario, and Armando strongly coupled plasma
QC QCD QD QEC QED QFT QGP QIP QIS QIST	quantum computer quantum chromodynamics quantum dot quantum error correction quantum electrodynamics quantum Fourier transform quark-gluon plasma quantum information processing quantum information science quantum information, science, and technology quantum key distribution	S SAGE SAMI SAW SBS SBSS SCES	(Back to top) Soviet-American gallium experiment SQUID array microscope surface-acoustic wave stimulated Brillouin scattering science-based stockpile stewardship subcritical experiments SCEs were: Rebound, Stagecoach, Cimarron, Thoroughbred, and the Stallion series: Vito, Rocco, Mario, and Armando strongly coupled plasma single-electron transistor
QC QCD QD QEC QED QFT QGP QIP QIS QIST QKD QMU	quantum computer quantum chromodynamics quantum dot quantum error correction quantum electrodynamics quantum Fourier transform quark-gluon plasma quantum information processing quantum information science quantum information, science, and technology quantum key distribution quantified margins and uncertainties	S SAGE SAMI SAW SBS SBSS SCEs	(Back to top) Soviet-American gallium experiment SQUID array microscope surface-acoustic wave stimulated Brillouin scattering science-based stockpile stewardship subcritical experiments SCEs were: Rebound, Stagecoach, Cimarron, Thoroughbred, and the Stallion series: Vito, Rocco, Mario, and Armando strongly coupled plasma single-electron transistor single-electron tunneling
QC QCD QD QEC QED QFT QGP QIP QIS QIST QKD QMU	quantum computer quantum chromodynamics quantum dot quantum error correction quantum electrodynamics quantum Fourier transform quark-gluon plasma quantum information processing quantum information science quantum information, science, and technology quantum key distribution quantified margins and uncertainties	S SAGE SAMI SAW SBS SBSS SCES	(Back to top) Soviet-American gallium experiment SQUID array microscope surface-acoustic wave stimulated Brillouin scattering science-based stockpile stewardship subcritical experiments SCEs were: Rebound, Stagecoach, Cimarron, Thoroughbred, and the Stallion series: Vito, Rocco, Mario, and Armando strongly coupled plasma single-electron transistor



SHS	single hot spot	Т	(Pack to ton)
SIM	six-inch instrument manipulator	-	(Back to top)
SIS	superconducting image surface	3-D	three-dimensional
SISAK	Short-lived Isotopes Studied by the	2-D	two-dimensional
	AKUFVE-technique (AKUFVE is a	T	Theoretical (Laboratory Division)
	Swedish acronym for an arrangement for	TA	technical area
	continuous investigations of distribution	TB	tuberculosis
	ratios in liquid extraction)	TCS	translation confinement and sustainment
SLEP	stockpile life-extension program	TD	test director
SLM	spatial light modulator	TD	theoretical density
SM	single mode	TEP	technology experts panel
SNL	Sandia National Laboratories	TeV	tera electron volt
SN	solar neutrino	THREX	thresholded experiments
SNM	special nuclear material	THz	terahertz
SNO	Sudbury Neutrino Observatory	TIM	ten-inch instrument manipulator
SNS	Spallation Neutron Source (Laboratory	TIM	time interval meter
	Division)	TNA	thermal neutron (activation) analysis
SOP	streaked optical pyrometry	TOF	time of flight
SPCM	single-photon counting module	TOP	time-orbiting potential (trap)
SPD	single-photon detector	TOPS	Teacher Opportunities to Promote
SPDC	spontaneous parametric down		Science (program)
	conversion	TR	Threat Reduction (Laboratory Directorate)
SPS	single-photon source	TRU	transuranic (waste)
SQUID	superconducting quantum interference	TSM	technical staff member
	device	TUNL	Triangle Universities Nuclear Laboratory
SRS	stimulated Raman scattering	TW	terawatt
SS	stockpile stewardship	TXD	transient x-ray diffraction
SS	stockpile surveillance		
SSP	stockpile stewardship plan	U	(Back to top)
SSPX	sustained spheromak physics	UC	University of California
	experiment	UCN	ultra-cold neutron
SSR	Strategic and Supporting Research	UCT	universal coordinated time
ОТ	(Laboratory Directorate)	UGT	underground test
ST	spherical torus	ULSI	ultra large scale integration
STAR	solenoidal tracker at RHIC (collaboration)	OLO:	(microprocessor chips)
CTAD TI	PC solenoidal tracker at RHIC (STAR)	UNLV	University of Nevada-Las Vegas
SIAR II	time-projection chamber (TPC)	UNM	University of New Mexico
STB	Science & Technology Base (Laboratory	UNO	ultimate neutrino observatory
OID	Program)	UNR	University of Nevada-Reno
STM	scanning-tunneling microscope (–y)	UV	ultraviolet
SUNY	State University of New York	UXO	unexploded ordinance
SUSY	supersymmetry		a
	• •		
SWAP	the inversion of the zero quantum		



V (Back to top)

V-A vector-axial

VH vacuum hohlraum VHE very high energy

VISAR velocity interferometer system for any

reflector

VLAND Very Large Area Neutron Detector

VLSI very large scale integration

(microprocessor chips)

VNIIEF All-Russian Institute of Experimental

Physics (at Arzamas-16; in Russian)

VPM virtual pinhole microscope

W (Back to top)

WEM Weapons Engineering and

Manufacturing (Laboratory Directorate)

WIMP weakly interacting massive particle

WIPP Waste Isolation Pilot Plant

WNR Weapons Neutron Research (facility)
WNSL Wright Nuclear Structure Laboratory (at

Yale)

WP Weapons Physics (Laboratory Directorate)

X (Back to top)

X Applied Physics (Laboratory Division)

XRD x-ray diode

XWARP X-Division Archiving and Retrieval

Project

Y (Back to top)

YOC yield over clean

YSO yttrium oxyorthosilicate (scintillator)

Z (Back to top)

Z atomic number (i.e., low-Z, high-Z)